

# MEMORANDUM.

UTAH DEPARTMENT OF TRANSPORTATION

DATE: July 11, 2006

TO : All Utah Pavement Council Members

FROM : Howard J. Anderson, P.E.  
Asphalt Pavement Engineer

SUBJECT: Utah Pavement Council

Date: July 26th, 2006  
Location: UDOT Complex, 1<sup>st</sup> Floor Large Conference Room  
Address: 4501 South 2700 West  
Salt Lake City, UT 84119  
Time: 1:00 PM to 4:00 PM

The next Utah Pavement Council meeting is scheduled as shown above. Please send me any agenda items you may have to be included in the meeting.

## Attendance June 28<sup>h</sup> Meeting:

Kevin VanFrank, John Butterfield, Stephane Charmot, Brian Burr, Craig Fabrizio, James Cox, Mo Rahman, Brent Hadfield, Tim Biel, Karl Verhaeren, Desna Bergold, Tim O'Connell, James Hulse, Todd Laker, Pete Richter, Kevin McKinney, Roy Ulibarri, Mark White, Mont Wilson, Bryan Lee, Jeff Collard, Rodney Terry, Larry Gay, Mitzi McIntyre, Ben Blankenship, Joe Johnson, & Howard Anderson.

The following ground rules are recommended for our group: 1. Participate by providing your agenda items and reviewing the specifications or procedures and making comments. 2. Bring your reviewed copy of the draft. 3. Come on time and stay and participate as best you can. 4. Stay on task during discussions. 5. Keep personal gripes to a minimum. 6. Keep side conversations during breaks only.

## Draft Notes from June , 2006 Meeting:

1. **Welcome-** Howard Anderson welcomed the group. We had a large group and had to meet in the first floor large conference room. This required moving Troy Peterson's Engineer Conference meeting to the 2<sup>nd</sup> floor conference room we had scheduled. We

will continue to meet on the **4<sup>th</sup> Wednesday of each month**, from 1:00 to 4:00 PM in the 1<sup>st</sup> floor large conference room.

2. **Binder Approval for Mix Designs** - Kevin VanFrank, - our direction is that mix designs will be accompanied by a certified binder from the Central Laboratory. The Central Lab will collect a reservoir for each AC grade used on a project. At the end of year we will throw away what was not used and start again. The binder suppliers will need to send enough asphalt the Central Lab for distribution to the Regions for mix design certification. This is for all mixes involving PG graded binders – including HMA, Open Graded and SMA. This does not include Chip Seal or any emulsion materials. If the supplied oil from the binder supplier changes by ½ grade up or down then new material should be submitted and new mix designs completed. For example 100 gallons could be submitted in gallon cans to the Central Lab for each binder type. Small quantity projects can be worked out to reduce the required amount of binder provided to the Central Lab.
3. **Field Verification of Mix Designs, test strips, not on project if field verifying – RME Meeting**– RME's,. Simply stated, after a lab test verification has failed we don't allow test strips on the project. This will be covered in section 960 of our MOI. This will be re written in about a month. It is difficult to remove pavement once it is placed on the project.
4. **Availability and price of asphalt binder this season** – John Butterfield, Questions exist about the availability of asphalt this year and how much it will cost? The discussion proceeded that anything above what we currently have under contract will be difficult to supply. The supply is tight. This season one supplier has most of the UDOT projects. This supplier may be having some refining problems – this may make our supply even shorter. Other suppliers tell us they don't have any oil to help out. Everything is committed this year. Two suppliers are putting in a Coker this year possibly making the asphalt supply in even more of a question. AC-10 right now is going as high as \$400 per ton. However, there is no shortage of polymers to make the PG grades. The Legacy project coming up may have a supply problem. The supply may have to come from other tanks further away. Right now oil is about \$70 per barrel, with about 5 to 6 barrels per ton. A Coker can take all the remaining binder and make gas and other fuels out of it. This may lead to more use of PCC. The supply for concrete is better this year than what we saw last year with the shortage of cement. This is because of imports and new production plants coming on line. PCC should be in good shape for the next couple of years and some projects may have a pavement type change.
5. **Round Robin Testing Discussion** – Kevin VanFrank. Round Robin Testing with the Hamburg Wheel Tracking machine has been completed. Data from 6 rounds of testing is

soon to be published by Jim Cox. It has been found that with the Hamburg Wheel Track test the compaction of the samples is very important. Other important issues include the heating process with the sample and molds, the timing of the linear kneading compactor, curing time, the addition of hydrated lime procedure, etc. We are seeing 13 to 15 mm variation down to a 4 mm variation from laboratory to laboratory.

6. **Topics for the Annual Engineer's Conference** – Tim Biel, asked for any topics from the group for the annual conference coming up in November. A possible speaker with the topic would be welcomed.
7. **Other Items** – Stephane Charmot mentioned the name for SPA OGSC (Spray Applied) Open Graded Surface Course may change. He also talked about their recent project on the Kanab Main Street.
8. **Preliminary Draft for Alternate Bids, Asphalt versus Concrete** – Brent Hadfield passed out a handout very briefly describing our approach to this. It was discussed again that a contact point or person is needed for the asphalt pavement industry. Tim needs someone to speak for different asphalt industry related issues such as factors involved in the calculation of the Life Cycle Costs for HMA. This information is needed to compare the two materials in an alternate bid. On the concrete side he has Mitzi to call on. Items needed include the discount rate, user costs, maintenance costs, time applied etc. This request should be brought to the AGC.

**AGENDA**  
**Utah Pavement Council**  
**Wednesday, July 26th, 2006**

**1:00 PM UDOT Complex**  
**1st Floor Large Conference Room**  
**4501 South 2700 West**  
**Salt Lake City, UT 84101**

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| 1:00 - 1:10 | 1. | <b>Welcome</b> - Howard Anderson –<br><br>Summary:   |
| 1:10 - 1:30 | 2. | Binder market future - Department's outlook and thoughts<br><br>Summary:   |
| 1:30 – 2:00 | 3. | Warm Mix Asphalt - Benefits and Options - Tim<br><a href="http://www.fhwa.dot.gov/pavement/asphalt/wma.cfm">http://www.fhwa.dot.gov/pavement/asphalt/wma.cfm</a><br><br>Summary: |
| 2:00 – 2:30 | 4. | Binder Adjustment specification – update - Tim<br><br>Summary:   |
| 2:30 – 3:00 | 5. | Hamburg Round Robin Study – Report Status – Jim, Kevin<br><br>Summary:   |
| 3:00 – 3:30 | 6. | Other Items<br><br>Summary:  |
| 3:30 – 4:00 | 7. | Next meeting date - August 23, 2006  |